

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI
Mid-semester Examination (Close book)
DOSAGE FORM DESIGN PHA G632 SEM II 2022-2023

Max. Marks: 30

Duration: 90 min

Date:16.03.2023

Answer all the subparts of a question together.

Q. 1: Discuss **any six** factors limiting oral drug delivery. Support your answers with suitable examples. [6]

Q.2: Explain **any three** technologies for in situ forming implant-based long-acting parenteral formulations [6]

Q.3: Elaborates on the mechanisms involved in the elimination of drugs after intravitreal administration. [6]

Q 4: Describe different mechanisms responsible for the lung deposition of the pulmonary formulation. How lung anatomy affects pulmonary drug delivery. [6]

Q 5: Comment on the following [6]

- a. The influence of food on oral absorption of BCS class ii drugs
- b. Development of long-acting injectables for water-soluble drugs
- c. The use of pulmonary delivery of antitubercular drugs
- d. An example of a non-biodegradable implant for drug delivery to the posterior segment of the eye.
